

## Abstract

### Architecture of an acoustic multistatic system

The present invention relates to a multistatic sonar system having a particular mode of communication between the emitter base and the receiver bases responsible for detecting the sonar echoes. This system makes it possible in particular to circumvent the drawbacks occasioned by the use of radio communications or of satellite-based communications generally used.

The signal emitted by the emitter base comprises an appraisal pulse conveying information pertaining to the mode of operation of the system according to the invention, in particular the instant of emission, and a sonar pulse proper.

This system is especially intended for use by underwater vessels while diving, for detecting and locating surrounding objects or controlling the positioning of an autonomous underwater vehicle.

Figure 2